



## Rabbit Anti-phospho-STAT5a (Tyr694) antibody

SL1659R

<b>Product Name:</b>	phospho-STAT5a (Tyr694)
<b>Chinese Name:</b>	磷酸化Signal transduction和转录激活因子5a抗体
<b>Alias:</b>	STAT5 (phospho Y694); p-STAT5 (phospho Y694); STAT5A(Phospho-Tyr694); Mammary gland factor; Mammary gland factor; MGF; MGF; Signal transducer and activator of transcription 5A; Signal transducer and activator of transcription 5A; STA5A_RAT; STAT 5; STAT 5A; STAT5; STAT5A.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Rabbit,Sheep,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	91kDa
<b>Cellular localization:</b>	The nucleuscytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated Synthesised phosphopeptide derived from human STAT5a around the phosphorylation site of Tyr694:DG(p-Y)VK
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The protein encoded by this gene is a member of the STAT family of transcription

factors. In response to cytokines and growth factors, STAT family members are phosphorylated by the receptor associated kinases, and then form homo- or heterodimers that translocate to the cell nucleus where they act as transcription activators. This protein is activated by, and mediates the responses of many cell ligands, such as IL2, IL3, IL7 GM-CSF, erythropoietin, thrombopoietin, and different growth hormones. Activation of this protein in myeloma and lymphoma associated with a TEL/JAK2 gene fusion is independent of cell stimulus and has been shown to be essential for the tumorigenesis. The mouse counterpart of this gene is found to induce the expression of BCL2L1/BCL-X(L), which suggests the antiapoptotic function of this gene in cells. [provided by RefSeq, Jul 2008]

**Function:**

Carries out a dual function: signal transduction and activation of transcription. Mediates cellular responses to the cytokine KITLG/SCF and other growth factors. May mediate cellular responses to activated FGFR1, FGFR2, FGFR3 and FGFR4. Binds to the GAS element and activates PRL-induced transcription. Regulates the expression of milk proteins during lactation.

**Subunit:**

Forms a homodimer or a heterodimer with a related family member. Binds NR3C1. Interacts with NCOA1 and SOCS7. Interacts with ERBB4.

**Subcellular Location:**

Cytoplasm. Nucleus. Note=Mostly cytoplasmic during pregnancy, whereas it becomes predominantly nuclear during early lactation. It is translocated into the nucleus in response to phosphorylation.

**Tissue Specificity:**

Expressed in heart, lung, and weakly in muscle.

**Post-translational modifications:**

Tyrosine phosphorylated in response to IL2, IL3, IL7, IL15, KITLG/SCF, CSF2/GM-CSF, GH1, PRL, EPO and THPO. Tyrosine phosphorylated in response to signaling via activated FLT3 and KIT, resulting in translocation to the nucleus. Tyrosine phosphorylated in response to constitutively activated FGFR1, FGFR2, FGFR3 and FGFR4. Alternatively, can be phosphorylated by JAK2 at Tyr-694. Tyrosine phosphorylation is required for DNA-binding activity and dimerization. Serine phosphorylation is also required for maximal transcriptional activity (By similarity).

**Similarity:**

Belongs to the transcription factor STAT family.  
Contains 1 SH2 domain.

**SWISS:**

P42229

**Gene ID:**  
6776

**Database links:**

[Entrez Gene: 6776](#)Human

[Entrez Gene: 20850](#)Mouse

[Entrez Gene: 24918](#)Rat

[Omim: 601511](#)Human

[SwissProt: P42229](#)Human

[SwissProt: P42230](#)Mouse

[SwissProt: Q62771](#)Rat

[Unigene: 437058](#)Human

[Unigene: 277403](#)Mouse

[Unigene: 154399](#)Rat

**Important Note:**

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.